11-18-74

REPORT CONTROL SYMBOL NADC-13920-2

NADC

Tech. Info.

STATISTICAL REVIEW OF COUNTING ACCELEROMETER DATA FOR NAVY AND MARINE FLEET AIRCRAFT FROM 1 JAN 1962 TO 30 JUN 1974

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1 NOV 1974

SEMI-ANNUAL SUMMARY REPORT
AIRTASK A53530/202/78012-74-84
Work Unit No. 01

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Prepared for
NAVAL AIR SYSTEMS COMMAND
Department of the Navy
Washington, D. C. 20361

RCS NADC 13920-2

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER RCS NADC 13920-2	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE *(and Subtitle)* Statistical Review of Counting Accelerometer Data for Navy and Marine Fleet Aircraft from 1 Jan 1962 to 30 June 1974		5. TYPE OF REPORT & PERIOD COVERED Semi-Annual Summary Report/ From 1 Jan 1962 to 30 Jun 74 6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Thomas A. DeFiore		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS Air Vehicle Technology Department Naval Air Development Center Warminster, Pa. 18974		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS AIRTASK A53530/202/78012-74-84/ Work Unit No. 01
11. CONTROLLING OFFICE NAME AND ADDRESS Naval Air Systems Command Department of the Navy, Washington, D.C. 20361		12. REPORT DATE 1 Nov 1974 13. NUMBER OF PAGES 135
14. MONITORING AGENCY NAME & ADDRESS*(if different from Controlling Office)*		15. SECURITY CLASS. *(of this report)* UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT *(of this Report)*

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17. DISTRIBUTION STATEMENT *(of the abstract entered in Block 20, if different from Report)*

18. SUPPLEMENTARY NOTES

19. KEY WORDS *(Continue on reverse side if necessary and identify by block number)*

Counting Accelerometer Statistics; Calendar Time Separations; Training Navy; Combat Navy; Training Marine; Combat Marine

20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

This report is a specialized summary of normal acceleration data recorded by counting accelerometers. Data are separated by calendar time and mission category. Only data reported in the counting accelerometer program are included.

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE
S/N 0102-014-6601

UNCLASSIFIED

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SUMMARY

This is a semi-annual progress report, and it presents a specialized summary of the data in the counting accelerometer program. Statistics describing Navy and Marine aircraft cumulative g-count exceedances are calculated and tabulated. These tabulations are separated by calendar time and into four major categories of fleet experience: Navy Training, Navy Combat, Marine Training, and Marine Combat.

These data show that the load rate distributions (counts at 1000 hours) for most models and most g-levels have a non-normal distribution. Within a model (F-4B, F-8H, etc.) differences in the average load rates exist when data are separated by calendar time or mission category.

RCS NADC 13920-2

SPECIAL NOTES

1. This report supersedes and replaces all previous issues of this semi-annual report. (Previous issue report control symbol NADC-13920-2) dated 1 May 1974.

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F-8H	60	61
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F-8K	64	65
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Model	All Data
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AF-1E	A-4
A-1H	A-5
A-1J	A-6
A-3B	A-7
A-4B	A-8
TA-4B	A-9
A-5A	A-10
A-5B	A-11
KC-130F	A-12
F-4A	A-13
TF-4A	A-14
F-4G	A-15
F-6A	A-16
F-8A	A-17
RF-8A	A-18
TF-8A	A-19
F-8B	A-20
F-8C	A-21
F-8D	A-22
F-8E	A-23
DF-8F	A-24
EF-10B	A-25
F-11A	A-26
S-2D	A-27
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* TRANSDUCER LOAD-LEVEL RANGE (4-, 5-, 6-, 7-g)

** TRANSDUCER LOAD-LEVEL RANGE (6-, 7-, 8.5-, 10-g)

INTRODUCTION

The NAVAIRDEVCEN (Naval Air Development Center) is engaged in various flight maneuver-loads programs as assigned by the Naval Air Systems Command. One of these is the counting accelerometer program, and under this program data have been collected and reported since 1955.

The primary purpose of this program is to provide the flight load history of individual Navy and Marine aircraft. Other purposes include, but are not limited to, the comparison of operational loads environment with structural design requirements, the comparison of load histories of one model with another, and the determination of expected loads environment of future models. More recently, however, these data are used as the major input in the NAVAIRDEVCEN Aircraft Structural Fatigue Life Evaluation Program in estimating structural fatigue damage for those aircraft which do not have counting accelerometer data.

DISCUSSION

This is a semi-annual progress report. Included are statistical summaries of counting accelerometer data for all Navy and Marine aircraft. In service models appear in the main text. Out-of-service models or models which have not reported counting accelerometer data during the previous 12 months appear in Appendix A. The summary for each out-of-service model is its final summary. New models are added as their counting accelerometer data becomes available.

For each model, the following statistics are presented: (See Appendix B for the statistical procedures.)

$\bar{x}$ - the estimated mean load exceedances (counts at 1000 flt. hrs.) for each g-level recorded on the counting accelerometer.

S - estimated standard deviation (counts at 1000 flt. hrs.) of the load exceedances for each g-level.

A_3 - estimated skewness factor for the load exceedance distribution.

Two statistical summaries describing cumulative g-count exceedances and flight hours for each currently operational model are presented:

1. The first summary includes all quality-control accepted data reported in the time period comprising the terminal date of this report and the 12 months preceding that date.

2. The second includes all quality-control accepted data reported in the counting accelerometer program from the day each airplane was delivered for service to the terminal date of this report.

The first summary, which includes only the most recent 12 months, shows an indication of a model's current severity of usage. The second summary describes the severity of loads experienced by all airplanes of each model since acceptance. A comparison of the first summary with the second shows whether current usage for any model is more or less severe than usage over its full lifetime.

A further breakdown by mission category is provided for each airplane model in both of the aforementioned summaries. These categories are defined as follows:

1. Navy Training - an airplane in a Navy squadron assigned to a non-combat zone. (This includes all Navy airplanes not classified as being in a combat zone.)

2. Navy Combat - an airplane in a Navy squadron assigned to a combat zone.

3. Marine Training - an airplane in a Marine squadron assigned to a non-combat zone. (This includes all Marine airplanes not classified as being in a combat zone.)

4. Marine Combat - an airplane in a Marine squadron assigned to a combat zone.

The statistics for the A-4F Blue Angels are separated into solo aircraft and diamond formation aircraft. In the subsequent tables, the total flight hours shown for a given model are the sum of the hours reported for each category. However, summing the number of airplanes reporting in each category can result in a number exceeding the total aircraft, because the same airplane may have seen service in two or more categories. Its data were separated for calculation of statistics for each respective category.

Some general statistical observations for fleet-wide loads data are the following:

1. The load exceedance distribution for many of the aircraft models is non-normal (particularly asymmetrical) at all the g-levels recorded. In general, the degree of asymmetry increased with increasing g-level.

2. The scatter measure $\frac{S}{\bar{x}}$ (coefficient of variation) increases with higher g-levels.

3. For a given g-level, there is more scatter in loads received during training than during combat.

4. Differences exist in loads frequency among various configurations of the same model and various mission categories within the same configuration.

ACKNOWLEDGEMENT

The author wishes to acknowledge Project Team Member, Mr. Joseph Caristo, of the Air Vehicle Technology Department of the Naval Air Development Center, for his assistance in the preparation of this report.

T A B L E S

Counting accelerometer data are subject to quality control criteria modifications. Thus, in succeeding reports, model-wide summary statistics are subject to change even though a model may no longer be in service.

ALL DATA

7-73 to 06-74

MODEL A-4F

8 AIRPLANES 398.4 HOURS

BLUE ANGELS

SOLO

4 AIRPLANES
98.8 HOURS

PRACTICE	5.00	6.00	7.00	8.00
$\bar{X}$	4666.0	587.0	60.73	0
S				
A_3				

SHOW	5.00	6.00	7.00	8.00
$\bar{X}$	9760.3	3116.4	171.2	34.85
S				
A_3				

4 AIRPLANES
29.2 HOURS

DIAMOND

6 AIRPLANES
215.4 HOURS

PRACTICE	5.00	6.00	7.00	8.00
$\bar{X}$	891.3	181.0	9.28	0
S				
A_3				

SHOW	5.00	6.00	7.00	8.00
$\bar{X}$	2109.0	545.5	145.5	18.18
S				
A_3				

5 AIRPLANES
55.0 HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
NA NO DATA IN THIS CATEGORY
NR INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-4F

8 AIRPLANES 398.4 HOURS

BLUE ANGELS

SOLO

PRACTICE		5.0G	6.0G	7.0G	8.0G
4 AIRPLANES	$\bar{X}$	4666.0	587.0	60.73	0
98.8 HOURS	S				
	A_3				

SHOW		5.0G	6.0G	7.0G	8.0G
4 AIRPLANES	$\bar{X}$	9760.3	3116.4	171.2	34.85
29.2 HOURS	S				
	A_3				

DIAMOND

PRACTICE		5.0G	6.0G	7.0G	8.0G
6 AIRPLANES	$\bar{X}$	891.3	181.0	9.28	0
215.4 HOURS	S				
	A_3				

SHOW		5.0G	6.0G	7.0G	8.0G
5 AIRPLANES	$\bar{X}$	2109.0	545.5	145.5	18.18
55.0 HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL F-4J

2 AIRPLANES 60 HOURS

BLUE ANGELS

NAVY

DIAMOND	6.0G	7.0G	8.5G	10.0G
$\bar{X}$	0.00	0.00	0.00	0.00
S	##			
A_3				

1 AIRPLANES
7 HOURS

SOLO	6.0G	7.0G	8.5G	10.0G
$\bar{X}$	1313.17	382.12	0.00	0.00
S	##			
A_3				

2 AIRPLANES
54 HOURS

MARINE

	6.0G	7.0G	8.5G	10.0G
$\bar{X}$	#			
S				
A_3				

AIRPLANES
HOURS

	6.0G	7.0G	8.5G	10.0G
$\bar{X}$	#			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
NO DATA IN THIS CATEGORY
INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL F-4J

14 AIRPLANES 8102 HOURS

BLUE ANGELS

NAVY

DIAMOND	6.0G	7.0G	8.5G	10.0G
14 AIRPLANES	$\bar{X}$	502.35	164.78	21.16	1.73
5418 HOURS	S	118.81	82.68	13.94	1.23
	A_3	0.22	0.78	0.49	0.53

SOLO	6.0G	7.0G	8.5G	10.0G
10 AIRPLANES	$\bar{X}$	2220.24	797.59	143.85	12.38
2684 HOURS	S	**			
	A_3				

MARINE

	6.0G	7.0G	8.5G	10.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

	6.0G	7.0G	8.5G	10.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL KA-3B

4 AIRPLANES 1259 HOURS

NAVY

	TRAINING	2.0G	2.5G	3.0G	3.5G
4 AIRPLANES	$\bar{X}$	203.71	57.21	30.53	8.06
1259 HOURS	S	**			
	A_3				

	COMBAT	2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

	TRAINING	2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

	COMBAT	2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL KA-3B

41 AIRPLANES 32297 HOURS

NAVY

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	117.42	16.99	4.80	0.83
S	146.06	20.18	8.55	2.27
A_3	2.41	1.24	3.22	4.13

39 AIRPLANES
29270 HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	172.44	30.93	5.69	0.19
S	47.42	17.09	5.41	0.59
A_3	0.51	1.14	0.88	2.69

11 AIRPLANES
3028 HOURS

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL EKA-3B

11 AIRPLANES 2741 HOURS

NAVY

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	3.39	0.56	0.56	0.28
S	30.00	1.21	1.21	0.61
A_3	2.41	2.50	2.50	2.50

11 AIRPLANES
2741 HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL EKA-3B

20 AIRPLANES 9742 HOURS

NAVY

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	354.19	65.33	21.52	3.53
S	289.18	60.86	23.25	4.26
A_3	0.85	1.77	1.98	1.96

19 AIRPLANES
8334 HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	99.38	6.56	0.00	0.00
S	**			
A_3				

5 AIRPLANES
1408 HOURS

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-4F

27 AIRPLANES 5109 HOURS

NAVY

TRAINING		5.0G	6.0G	7.0G	8.0G
22 AIRPLANES	$\bar{X}$	354.17	57.96	16.46	5.36
4481 HOURS	S	191.62	39.80	13.74	5.21
	A_3	0.81	0.94	1.28	2.31

COMBAT		5.0G	6.0G	7.0G	8.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

TRAINING		5.0G	6.0G	7.0G	8.0G
6 AIRPLANES	$\bar{X}$	479.30	56.43	4.76	2.27
628 HOURS	S	**			
	A_3				

COMBAT		5.0G	6.0G	7.0G	8.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-4F

50 AIRPLANES 34525 HOURS

NAVY

50 AIRPLANES
24385 HOURS

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	664.37	109.36	12.30	1.83
S	333.61	64.33	11.00	4.26
A_3	-0.32	0.54	1.74	3.56

24 AIRPLANES
6122 HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	517.35	153.25	22.32	3.87
S	115.06	40.21	7.81	2.11
A_3	-0.34	0.31	0.19	0.87

MARINE

8 AIRPLANES
4018 HOURS

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	752.88	141.18	16.04	3.43
S	**			
A_3				

AIRPLANES
HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL TA-4F

22 AIRPLANES 5738 HOURS

NAVY

19 AIRPLANES
5140 HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	102.73	10.36	1.16	0.00
S	95.47	16.13	2.24	0.00
A_3	1.17	2.03	3.35	0.00

AIRPLANES
HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

MARINE

3 AIRPLANES
585 HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	372.13	22.19	0.00	0.00
S	**			
A_3				

AIRPLANES
HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL TA-4F

155 AIRPLANES 161939 HOURS

NAVY

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	163.26	18.99	1.68	0.15
S	170.29	26.56	2.76	0.58
A_3	2.19	3.60	2.63	5.89

134 AIRPLANES
124795 HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	566.64	58.32	3.25	0.74
S	**			
A_3				

9 AIRPLANES
2151 HOURS

MARINE

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	682.91	82.05	6.56	0.79
S	408.28	97.16	11.21	2.18
A_3	1.44	4.17	4.42	4.69

36 AIRPLANES
34994 HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-4G

14 AIRPLANES 2226 HOURS

NAVY

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	1074.72	147.85	12.01	3.34
S	306.73	61.61	5.99	3.30
A_3	0.57	1.00	1.48	2.21

14 AIRPLANES
2226 HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-4G

16 AIRPLANES 11471 HOURS

NAVY

16 AIRPLANES
11471 HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	2158.26	373.91	43.73	4.87
S	500.10	106.91	14.74	3.46
A_3	-0.19	-0.04	-0.15	0.37

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL TA-4J

321 AIRPLANES 121658 HOURS

NAVY

304 AIRPLANES
116472 HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	330.22	35.11	6.35	1.66
S	154.25	31.59	11.10	6.04
A_3	1.54	5.13	5.61	8.31

AIRPLANES
HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

MARINE

17 AIRPLANES
5196 HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	128.29	4.34	0.00	0.00
S	52.44	3.10	0.00	0.00
A_3	-0.23	1.13	0.00	0.00

AIRPLANES
HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL TA-4J

359 AIRPLANES 271800 HOURS

NAVY

340 AIRPLANES
262371 HOURS

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	339.05	44.74	15.07	11.25
S	294.49	263.04	261.03	260.91
A_3	9.24	17.94	18.28	18.31

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

24 AIRPLANES
9429 HOURS

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	412.63	10.66	0.56	0.13
S	397.98	10.66	0.94	0.31
A_3	3.16	2.17	3.11	3.74

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-4M

20 AIRPLANES 3074 HOURS

NAVY

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	484.43	48.40	13.20	13.20
S	**			
A_3				

2 AIRPLANES
197 HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	673.36	135.53	23.11	9.04
S	312.04	102.19	27.64	11.99
A_3	0.69	1.55	1.87	1.98

19 AIRPLANES
2877 HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-4M

35 AIRPLANES 7628 HOURS

NAVY

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	1181.35	135.02	13.56	6.29
S	**			
A_3				

10 AIRPLANES
952 HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	979.90	186.56	28.91	8.63
S	332.01	132.78	27.89	8.90
A_3	0.98	2.88	2.31	1.75

33 AIRPLANES
6676 HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL RA-5C

42 AIRPLANES 10540 HOURS

NAVY

42 AIRPLANES
10508 HOURS

TRAINING	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	169.85	6.03	0.16	0.00
S	71.67	3.51	0.43	0.00
A_3	1.78	0.86	4.15	0.00

1 AIRPLANES
32 HOURS

COMBAT	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	0.00	0.00	0.00	0.00
S	**			
A_3				

MARINE

AIRPLANES
HOURS

TRAINING	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL RA-5C

129 AIRPLANES 129308 HOURS

NAVY

TRAINING	3.0G	4.0G	5.0G	6.0G
129 AIRPLANES	$\bar{X}$	210.69	14.23	1.00	0.15
108443 HOURS	S	118.04	28.22	1.95	0.53
	A_3	2.84	8.55	3.26	3.33

COMBAT	3.0G	4.0G	5.0G	6.0G
94 AIRPLANES	$\bar{X}$	931.07	99.95	13.46	0.66
20865 HOURS	S	435.85	70.01	18.99	1.29
	A_3	3.15	3.41	6.42	3.66

MARINE

TRAINING	3.0G	4.0G	5.0G	6.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

COMBAT	3.0G	4.0G	5.0G	6.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-6A

143 AIRPLANES 26727 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
118 AIRPLANES	$\bar{X}$	1128.25	357.26	34.81	1.72
16979 HOURS	S	309.24	116.28	15.44	2.07
	A_3	2.22	1.22	1.02	3.99

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
46 AIRPLANES	$\bar{X}$	964.49	260.62	17.72	1.04
9640 HOURS	S	262.14	136.82	14.89	2.13
	A_3	0.78	2.14	1.75	2.67

COMBAT	4.0G	5.0G	6.0G	7.0G
3 AIRPLANES	$\bar{X}$	45.98	22.99	11.45	0.00
108 HOURS	S	**			
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-6A

415 AIRPLANES 364971 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
383 AIRPLANES	$\bar{X}$	1325.54	424.20	70.75	6.49
213970 HOURS	S	449.07	212.26	55.82	8.77
	A_3	0.46	1.63	3.53	7.24

COMBAT	4.0G	5.0G	6.0G	7.0G
197 AIRPLANES	$\bar{X}$	1069.84	446.93	108.93	12.84
38646 HOURS	S	268.88	153.49	56.49	7.63
	A_3	4.30	4.63	3.34	2.06

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
186 AIRPLANES	$\bar{X}$	892.50	216.53	29.66	2.63
85914 HOURS	S	359.07	125.37	25.74	4.17
	A_3	0.79	1.01	2.15	3.40

COMBAT	4.0G	5.0G	6.0G	7.0G
77 AIRPLANES	$\bar{X}$	457.85	149.86	23.43	1.37
26440 HOURS	S	211.51	110.44	21.43	3.45
	A_3	1.11	2.92	3.29	7.09

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL EA-6A

12 AIRPLANES 1755 HOURS

NAVY

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	0.00	0.00	0.00	0.00
S	**			
A_3				

2 AIRPLANES
41 HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	82.35	5.44	0.08	0.00
S	61.97	1.09	0.80	0.00
A_3	1.48	0.99	3.03	0.00

12 AIRPLANES
1714 HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL EA-6A

19 AIRPLANES 15546 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
2 AIRPLANES				
41 HOURS				
$\bar{X}$	0.00	0.00	0.00	0.00
S	**			
A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES				
HOURS				
$\bar{X}$	*			
S				
A_3				

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
19 AIRPLANES				
15067 HOURS				
$\bar{X}$	65.32	4.81	0.22	0.00
S	55.65	4.75	0.53	0.26
A_3	1.49	1.24	1.28	4.02

COMBAT	4.0G	5.0G	6.0G	7.0G
5 AIRPLANES				
438 HOURS				
$\bar{X}$	10.56	1.51	0.00	0.00
S	**			
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-6B

11 AIRPLANES 1436 HOURS

NAVY

11 AIRPLANES
1436 HOURS

TRAINING		4.00	5.00	6.00	7.00
	$\bar{X}$	1084.98	323.82	34.36	7.51
	S	149.00	65.40	16.42	11.00
	A_3	-0.63	0.60	1.53	2.62

COMBAT		4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

TRAINING		4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

COMBAT		4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-6B

18 AIRPLANES 10606 HOURS

NAVY

TRAINING	4.00	5.00	6.00	7.00
17 AIRPLANES	$\bar{X}$	532.39	130.91	20.10	3.08
8685 HOURS	S	137.54	51.08	15.20	5.12
	A_3	-0.28	0.15	0.75	2.02

COMBAT	4.00	5.00	6.00	7.00
10 AIRPLANES	$\bar{X}$	301.71	91.54	9.41	1.92
1921 HOURS	S	**			
	A_3				

MARINE

TRAINING	4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

COMBAT	4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL EA-6B

36 AIRPLANES 7998 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	54.53	5.64	1.04	0.28
S	32.26	5.29	2.49	0.70
A_3	1.33	2.09	5.04	6.34

36 AIRPLANES
7998 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL EA-6B

37 AIRPLANES 15878 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
37 AIRPLANES	$\bar{X}$	82.82	12.53	1.79	0.06
15871 HOURS	S	60.87	19.80	5.70	0.51
	A_3	3.87	4.35	4.77	5.75

COMBAT	4.0G	5.0G	6.0G	7.0G
1 AIRPLANES	$\bar{X}$	0.00	0.00	0.00	0.00
7 HOURS	S	**			
	A_3				

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-5C

10 AIRPLANES 1275 HOURS

NAVY

TRAINING	4.00	5.00	6.00	7.00
10 AIRPLANES				
1275 HOURS				
$\bar{X}$	893.63	232.00	17.15	2.11
S	**			
A_3				

COMBAT	4.00	5.00	6.00	7.00
AIRPLANES				
HOURS				
$\bar{X}$	*			
S				
A_3				

MARINE

TRAINING	4.00	5.00	6.00	7.00
AIRPLANES				
HOURS				
$\bar{X}$	*			
S				
A_3				

COMBAT	4.00	5.00	6.00	7.00
AIRPLANES				
HOURS				
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-6C

12 AIRPLANES 4163 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	597.76	150.80	10.03	0.94
S	134.80	45.44	5.85	0.63
A_3	0.78	1.28	0.17	-0.05

12 AIRPLANES
3858 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	593.18	316.07	65.16	9.74
S	**			
A_3				

3 AIRPLANES
304 HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL KA-6D

53 AIRPLANES 12160 HOURS

NAVY

53 AIRPLANES
12160 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	27.28	3.75	0.15	0.00
S	35.41	2.77	0.40	0.00
A_3	5.82	2.80	4.72	0.00

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL KA-6D

61 AIRPLANES 42473 HOURS

NAVY

61 AIRPLANES
33848 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	33.52	4.56	0.60	0.11
S	51.12	6.55	1.21	0.37
A_3	4.43	4.65	3.86	5.61

32 AIRPLANES
8625 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	21.61	3.62	0.87	0.00
S	16.26	4.17	1.70	0.00
A_3	1.12	2.40	3.48	0.00

MARINE

AIRPLANES
HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-6E

73 AIRPLANES 16775 HOURS

NAVY

71 AIRPLANES
16459 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1344.91	424.49	59.03	5.63
S	463.01	172.90	38.24	5.69
A_3	1.02	1.05	3.15	3.12

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

3 AIRPLANES
317 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	734.73	178.02	69.29	0.00
S	**			
A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-6E

79 AIRPLANES 25922 HOURS

NAVY

77 AIRPLANES
25605 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1172.07	324.60	43.05	3.75
S	452.68	150.41	33.03	5.01
A_3	1.22	1.16	2.35	2.86

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES				
HOURS				
$\bar{X}$	*			
S				
A_3				

MARINE

3 AIRPLANES
317 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	734.73	178.02	69.29	0.00
S	**			
A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES				
HOURS				
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-7A

77 AIRPLANES 17267 HOURS

NAVY

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	904.34	242.60	29.04	1.66
S	413.84	109.54	38.58	2.35
A_3	5.60	2.83	7.13	5.75

77 AIRPLANES
12178 HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	1296.92	199.95	0.00	0.00
S	**			
A_3				

2 AIRPLANES
85 HOURS

MARINE

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-7A

194 AIRPLANES 262544 HOURS

NAVY

194 AIRPLANES
197869 HOURS

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	1097.57	219.20	23.43	2.25
S	431.42	110.47	21.31	2.84
A_3	0.26	0.72	2.79	1.96

133 AIRPLANES
64675 HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	765.97	242.17	32.86	2.62
S	157.84	77.57	15.90	2.44
A_3	0.21	1.61	0.86	1.77

MARINE

AIRPLANES
HOURS

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-7B

82 AIRPLANES 19775 HOURS

NAVY

82 AIRPLANES
19775 HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	981.54	239.12	20.66	4.20
S	310.35	122.09	26.05	10.17
A_3	1.02	1.98	6.14	5.35

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-7B

107 AIRPLANES 62295 HOURS

NAVY

106 AIRPLANES
62903 HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	1037.13	281.29	32.25	4.55
S	383.68	154.25	41.05	12.29
A_3	1.36	1.39	4.16	4.71

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	1321.19	428.29	66.77	4.01
S	346.79	118.41	33.00	4.54
A_3	-0.00	0.86	3.00	3.59

28 AIRPLANES
9392 HOURS

MARINE

AIRPLANES
HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-7C

30 AIRPLANES 12471 HOURS

NAVY

30 AIRPLANES
12471 HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	904.60	144.65	16.57	3.78
S	304.12	75.66	16.42	7.09
A_3	1.47	3.20	2.71	2.87

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-7C

36 AIRPLANES 27714 HOURS

NAVY

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	822.95	137.58	13.52	2.83
S	244.82	69.24	14.62	5.47
A_3	0.76	2.86	3.18	2.37

35 AIRPLANES
20127 HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	660.69	151.23	17.38	2.11
S	175.62	43.50	18.49	12.62
A_3	1.49	0.70	3.53	4.31

22 AIRPLANES
7587 HOURS

MARINE

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL A-7E

152 AIRPLANES 38071 HOURS

NAVY

152 AIRPLANES
38071 HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	714.33	89.39	5.38	1.13
S	378.14	38.76	5.72	2.76
A_3	7.07	1.75	4.60	9.45

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL A-7E

182 AIRPLANES 85495 HOURS

NAVY

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	783.08	98.52	5.25	0.60
S	351.71	45.98	5.37	2.14
A_3	4.02	1.36	3.34	8.43

182 AIRPLANES
77671 HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	315.36	62.65	4.36	0.62
S	61.50	20.35	2.97	1.09
A_3	0.00	0.23	1.54	4.20

34 AIRPLANES
7824 HOURS

MARINE

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL C-2A

7 AIRPLANES 2483 HOURS

NAVY

TRAINING		2.0G	2.5G	3.0G	3.5G
7 AIRPLANES	$\bar{X}$	1.91	1.11	0.48	0.00
2483 HOURS	S	**			
	A_3				

COMBAT		2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

TRAINING		2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

COMBAT		2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL C-2A

15 AIRPLANES 42893 HOURS

NAVY

15 AIRPLANES
42893 HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	53.59	16.12	6.83	1.66
S	61.84	27.33	13.09	3.94
A_3	2.09	2.13	2.03	1.78

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

AIRPLANES
HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL F-4B

124 AIRPLANES 18117 HOURS

NAVY

TRAINING		4.0G	5.0G	6.0G	7.0G
86 AIRPLANES	$\bar{X}$	2333.64	895.95	290.20	69.95
9885 HOURS	S	614.17	294.93	137.37	39.27
	A_3	0.83	1.36	1.97	2.53

COMBAT		4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

TRAINING		4.0G	5.0G	6.0G	7.0G
45 AIRPLANES	$\bar{X}$	4753.39	1902.38	468.95	104.48
8831 HOURS	S	1089.92	491.59	144.70	49.12
	A_3	0.77	0.49	1.06	2.90

COMBAT		4.0G	5.0G	6.0G	7.0G
4 AIRPLANES	$\bar{X}$	1327.20	528.46	143.22	55.07
198 HOURS	S	**			
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL F-4B

611 AIRPLANES 854468 HOURS

NAVY

573 AIRPLANES
439683 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1978.45	645.13	180.93	43.36
S	1098.02	497.40	206.89	74.52
A_3	2.06	2.42	3.73	5.87

291 AIRPLANES
108405 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1137.73	405.31	129.20	31.32
S	372.90	132.70	67.31	31.02
A_3	2.08	1.94	4.10	8.73

MARINE

334 AIRPLANES
199645 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	2289.66	740.20	181.58	40.16
S	1186.58	517.98	191.77	60.67
A_3	1.27	1.69	2.19	3.46

226 AIRPLANES
106735 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	2221.18	864.39	225.90	47.53
S	695.10	341.03	155.65	51.23
A_3	1.47	1.22	2.23	4.40

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL RF-4B

25 AIRPLANES 4174 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
25 AIRPLANES $\bar{X}$	644.30	225.92	100.85	56.42
4174 HOURS S	486.75	236.59	134.61	82.08
A_3	3.84	3.98	4.01	4.02

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL RF-4B

46 AIRPLANES 57009 HOURS

NAVY

	TRAINING	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

	COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

	TRAINING	4.0G	5.0G	6.0G	7.0G
46 AIRPLANES	$\bar{X}$	378.29	94.87	22.39	6.54
48394 HOURS	S	287.45	111.12	45.88	25.84
	A_3	1.56	2.90	4.36	5.56

	COMBAT	4.0G	5.0G	6.0G	7.0G
16 AIRPLANES	$\bar{X}$	1087.24	210.75	41.81	8.94
8015 HOURS	S	405.94	78.46	26.06	5.37
	A_3	1.58	1.80	2.16	1.10

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL F-4J

305 AIRPLANES 67804 HOURS

NAVY

233 AIRPLANES
51917 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1913.22	715.25	191.84	38.03
S	1245.40	501.34	157.12	44.27
A_3	-0.16	0.30	1.31	3.05

3 AIRPLANES
131 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	2559.96	1016.13	140.92	17.67
S	**			
A_3				

MARINE

84 AIRPLANES
14980 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	3782.95	1311.03	339.86	73.94
S	766.78	349.04	147.04	48.67
A_3	0.35	1.03	1.76	2.57

11 AIRPLANES
725 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	2673.33	979.96	315.24	74.34
S	320.93	112.01	86.91	29.25
A_3	0.90	0.70	1.40	1.38

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL F-4J

463 AIRPLANES 437687 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	3143.41	1187.19	367.38	90.83
S	1702.81	815.29	327.51	104.55
A_3	0.89	1.24	2.04	2.89

430 AIRPLANES
253457 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1118.00	458.21	137.81	34.71
S	341.12	157.31	64.39	36.91
A_3	1.82	2.85	2.67	4.36

177 AIRPLANES
53694 HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	4710.91	1806.56	581.89	164.61
S	1545.56	651.60	296.39	116.16
A_3	1.07	1.09	1.08	1.55

180 AIRPLANES
120650 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	2809.31	1311.54	411.29	76.18
S	620.70	264.53	170.95	47.61
A_3	2.54	2.24	1.87	1.61

49 AIRPLANES
9865 HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL F-4N

55 AIRPLANES 9934 HOURS

NAVY

TRAINING	4.00	5.00	6.00	7.00
43 AIRPLANES $\bar{X}$	2368.64	1160.26	448.69	118.46
5371 HOURS S	514.14	238.60	134.26	41.08
A_3	1.37	0.84	1.63	1.39

COMBAT	4.00	5.00	6.00	7.00
5 AIRPLANES $\bar{X}$	1332.01	736.32	258.34	71.02
112 HOURS S	**			
A_3				

MARINE

TRAINING	4.00	5.00	6.00	7.00
18 AIRPLANES $\bar{X}$	4602.03	2017.09	660.04	118.92
4451 HOURS S	1181.85	658.08	258.42	63.95
A_3	0.67	1.34	0.98	1.37

COMBAT	4.00	5.00	6.00	7.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL F-4N

56 AIRPLANES 10583 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
44 AIRPLANES	$\bar{X}$	2713.31	1389.53	584.26	141.13
6020 HOURS	S	476.09	262.92	166.95	56.66
	A_3	1.06	0.94	1.39	2.25

COMBAT	4.0G	5.0G	6.0G	7.0G
5 AIRPLANES	$\bar{X}$	1332.01	736.32	259.34	71.02
112 HOURS	S	**			
	A_3				

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
18 AIRPLANES	$\bar{X}$	4602.03	2017.09	660.04	118.82
4451 HOURS	S	1181.85	658.08	258.42	63.95
	A_3	0.67	1.34	0.98	1.37

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL RF-8G

14 AIRPLANES 2853 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	210.71	41.24	11.87	0.65
S	138.96	27.83	12.63	0.78
A_3	1.59	1.41	2.35	1.65

14 AIRPLANES
2853 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL RF-8G

35 AIRPLANES 28576 HOURS

NAVY

35 AIRPLANES
27384 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	441.90	128.65	30.52	4.28
S	219.01	74.21	26.41	7.73
A_3	0.24	0.54	1.54	4.70

11 AIRPLANES
1192 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1481.32	391.60	63.37	8.37
S	387.16	90.25	26.29	5.38
A_3	1.13	1.89	1.75	1.30

MARINE

AIRPLANES
HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL F-8H

47 AIRPLANES 9071 HOURS

NAVY

	TRAINING	4.00	5.00	6.00	7.00
47 AIRPLANES	$\bar{X}$	2133.78	633.28	109.71	9.60
9071 HOURS	S	505.03	213.20	50.02	7.31
	A_3	1.93	2.50	3.10	3.42

	COMBAT	4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

	TRAINING	4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

	COMBAT	4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL F-8H

85 AIRPLANES 75748 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
86 AIRPLANES	$\bar{X}$	1630.21	508.04	96.98	12.33
62528 HOURS	S	556.21	195.62	44.90	8.63
	A_3	0.43	0.95	1.01	1.79

COMBAT	4.0G	5.0G	6.0G	7.0G
45 AIRPLANES	$\bar{X}$	711.67	197.56	41.43	6.17
13220 HOURS	S	254.48	82.47	19.81	4.48
	A_3	2.35	2.77	2.28	1.32

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL F-8J

72 AIRPLANES 13082 HOURS

NAVY

TRAINING	4.00	5.00	6.00	7.00
72 AIRPLANES $\bar{X}$	2239.14	709.30	123.28	17.49
12937 HOURS S	716.52	343.11	88.70	43.66
A_3	1.03	1.37	2.92	7.73

COMBAT	4.00	5.00	6.00	7.00
5 AIRPLANES $\bar{X}$	594.97	38.01	0.00	0.00
145 HOURS S	**			
A_3				

MARINE

TRAINING	4.00	5.00	6.00	7.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	4.00	5.00	6.00	7.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL F-8J

134 AIRPLANES 114049 HOURS

NAVY

134 AIRPLANES
86942 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	2144.85	664.55	124.81	15.22
S	714.37	278.02	64.10	10.17
A_3	0.76	0.69	1.16	7.42

93 AIRPLANES
27107 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	769.22	258.05	55.14	9.34
S	318.19	138.03	35.51	3.12
A_3	2.48	2.94	2.90	3.75

MARINE

AIRPLANES
HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL F-8K

35 AIRPLANES 5071 HOURS

NAVY

35 AIRPLANES
4990 HOURS

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	2290.70	730.46	166.75	19.12
S	366.87	128.28	42.43	9.06
A_3	0.81	1.04	1.34	3.69

1 AIRPLANES
80 HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	0.00	0.00	0.00	0.00
S	##			
A_3				

MARINE

AIRPLANES
HOURS

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL F-8K

74 AIRPLANES 38812 HOURS

NAVY

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	1670.30	518.91	110.86	13.27
S	775.33	257.58	61.90	8.86
A_3	1.03	2.38	3.74	1.25

74 AIRPLANES
38700 HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	4194.50	1576.02	208.63	24.86
S	**			
A_3				

3 AIRPLANES
113 HOURS

MARINE

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL F-8L

0 AIRPLANES 0 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL F-8L

36 AIRPLANES 9856 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	171.41	498.06	122.95	19.19
S	427.64	204.07	66.52	13.14
A_3	0.81	0.84	1.31	1.17

36 AIRPLANES
9856 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL DF-8L

5 AIRPLANES 508 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	452.19	107.08	11.33	0.00
S	**			
A_3				

5 AIRPLANES
508 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL DF-8L

5 AIRPLANES 1099 HOURS

NAVY

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	748.29	195.67	28.06	2.43
S	**			
A_3				

5 AIRPLANES
1099 HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL P-3A

77 AIRPLANES 37836 HOURS

NAVY

		TRAINING	2.00	2.50	3.00	3.50
77	AIRPLANES	$\bar{X}$	11.31	0.17	0.01	0.01
37778	HOURS	S	44.95	1.34	0.16	0.16
		A_3	8.04	7.93	8.59	8.59

		COMBAT	2.00	2.50	3.00	3.50
1	AIRPLANES	$\bar{X}$	0.00	0.00	0.00	0.00
58	HOURS	S	**			
		A_3				

MARINE

		TRAINING	2.00	2.50	3.00	3.50
	AIRPLANES	$\bar{X}$	*			
	HOURS	S				
		A_3				

		COMBAT	2.00	2.50	3.00	3.50
	AIRPLANES	$\bar{X}$	*			
	HOURS	S				
		A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL P-3A

151 AIRPLANES 794821 HOURS

NAVY

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	18.59	1.69	0.21	0.03
S	44.46	4.73	1.55	0.28
A_3	4.53	6.10	9.38	6.06

150 AIRPLANES
703820 HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	12.38	1.10	0.09	0.01
S	14.94	2.36	0.41	0.11
A_3	2.85	2.44	4.00	9.85

101 AIRPLANES
91001 HOURS

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL P--3B

105 AIRPLANES 69859 HOURS

NAVY

105 AIRPLANES
68502 HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	2.46	0.14	0.02	0.01
S	3.47	0.42	0.17	0.12
A_3	3.75	3.31	7.08	10.00

7 AIRPLANES
1057 HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	0.20	0.00	0.00	0.00
S	**			
A_3				

MARINE

AIRPLANES
HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL F-3B

124 AIRPLANES 614882 HOURS

NAVY

TRAINING	2.0G	2.5G	3.0G	3.5G
124 AIRPLANES	$\bar{X}$	10.54	0.92	0.11	0.01
52786 HOURS	S	24.74	2.23	0.42	0.06
	A_3	2.25	2.08	1.90	4.69

COMBAT	2.0G	2.5G	3.0G	3.5G
78 AIRPLANES	$\bar{X}$	4.91	0.44	0.03	0.01
56920 HOURS	S	5.52	0.92	0.15	0.11
	A_3	0.65	2.77	5.63	8.37

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

COMBAT	2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL P-3C

73 AIRPLANES 43053 HOURS

NAVY

TRAINING	2.00	2.50	3.00	3.50
$\bar{X}$	3.56	0.75	0.22	0.02
S	5.19	1.87	0.79	0.22
A_3	3.51	5.19	4.45	5.06

73 AIRPLANES
43063 HOURS

COMBAT	2.00	2.50	3.00	3.50
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	2.00	2.50	3.00	3.50
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.00	2.50	3.00	3.50
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-71

MODEL F-3C

75 AIRPLANES 99663 HOURS

NAVY

TRAINING	2.00	2.50	3.00	3.50
75 AIRPLANES $\bar{X}$	3.77	0.66	0.11	0.03
99328 HOURS S	7.69	2.51	0.66	0.26
A_3	3.27	4.55	3.35	4.91

COMBAT	2.00	2.50	3.00	3.50
2 AIRPLANES $\bar{X}$	0.00	0.00	0.00	0.00
335 HOURS S	**			
A_3				

MARINE

TRAINING	2.00	2.50	3.00	3.50
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	2.00	2.50	3.00	3.50
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL ES-2D

5 AIRPLANES 1393 HOURS

NAVY

5 AIRPLANES
1393 HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	9.70	1.87	0.00	0.00
S	**			
A_3				

COMBAT	2.0G	2.5G	3.0G	3.5G
AIRPLANES				
HOURS				
$\bar{X}$	*			
S				
A_3				

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
AIRPLANES				
HOURS				
$\bar{X}$	*			
S				
A_3				

COMBAT	2.0G	2.5G	3.0G	3.5G
AIRPLANES				
HOURS				
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL ES-2D

5 AIRPLANES 5657 HOURS

NAVY

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	11.90	1.49	0.37	0.00
S	**			
A_3				

6 AIRPLANES
5657 HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL S-2E

83 AIRPLANES 25869 HOURS

NAVY

TRAINING	2.0G	2.5G	3.0G	3.5G
83 AIRPLANES $\bar{X}$	66.30	13.39	0.74	0.06
25069 HOURS S	134.06	60.80	1.36	0.28
A_3	4.20	8.57	4.88	6.16

COMBAT	2.0G	2.5G	3.0G	3.5G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	2.0G	2.5G	3.0G	3.5G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL S-2E

229 AIRPLANES 579088 HOURS

NAVY

229 AIRPLANES
550207 HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	70.97	12.22	2.94	1.03
S	258.04	29.86	7.11	3.47
A_3	5.42	4.29	2.39	2.64

65 AIRPLANES
28881 HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	40.67	7.47	1.14	0.42
S	67.96	7.95	1.70	1.33
A_3	5.07	2.05	2.66	5.00

MARINE

AIRPLANES
HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL S-2G

47 AIRPLANES 16598 HOURS

NAVY

47 AIRPLANES
16598 HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	68.96	13.34	4.23	1.38
S	118.78	16.67	7.96	3.37
A_3	5.30	2.93	4.24	1.69

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL S-2G

48 AIRPLANES 36877 HOURS

NAVY

TRAINING		2.0G	2.5G	3.0G	3.5G
48 AIRPLANES	$\bar{X}$	56.99	10.52	3.27	1.49
36877 HOURS	S	99.32	16.92	7.30	3.95
	A_3	4.60	2.31	2.99	3.02

COMBAT		2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

TRAINING		2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

COMBAT		2.0G	2.5G	3.0G	3.5G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL S-3A

16 AIRPLANES 1427 HOURS

NAVY

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	711.17	304.97	68.59	16.51
S	381.82	167.71	50.81	18.09
A_3	0.77	0.99	2.46	2.30

16 AIRPLANES
1427 HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL S-3A

18 AIRPLANES 2651 HOURS

NAVY

18 AIRPLANES
2651 HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	607.63	228.77	68.51	24.15
S	352.77	146.53	46.16	18.93
A_3	0.36	0.88	1.52	1.33

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL T-2B

65 AIRPLANES 22039 HOURS

NAVY

65 AIRPLANES
22039 HOURS

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	93.41	14.26	1.85	0.54
S	54.67	13.24	1.55	0.78
A_3	2.03	3.37	1.43	2.35

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL T-2B

89 AIRPLANES 145331 HOURS

NAVY

89 AIRPLANES
145331 HOURS

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	226.22	25.39	2.62	0.39
S	247.81	39.85	4.20	0.82
A_3	3.07	3.70	3.39	1.57

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL T-2C

23 AIRPLANES 8278 HOURS

NAVY

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	30.24	10.50	3.30	0.25
S	52.34	7.82	5.00	0.50
A_3	1.95	2.16	3.81	2.62

23 AIRPLANES
8278 HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	5.00	6.00	7.00	8.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-71

MODEL T-2C

31 AIRPLANES 12807 HOURS

NAVY

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	72.92	9.54	3.21	0.62
S	61.66	8.39	5.50	1.09
A_3	2.46	2.58	4.04	3.43

31 AIRPLANES
12807 HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	5.0G	6.0G	7.0G	8.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL T-28B

41 AIRPLANES 16993 HOURS

NAVY

41 AIRPLANES
16993 HOURS

TRAINING	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	289.33	31.62	8.28	7.14
S	151.86	43.09	35.95	35.71
A_3	0.55	3.59	5.31	5.96

COMBAT	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

AIRPLANES
HOURS

TRAINING	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	*			
S				
A_3				

COMBAT	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL T-28B

102 AIRPLANES 423497 HOURS

NAVY

TRAINING	3.00	4.00	5.00	6.00
$\bar{X}$	333.57	44.95	5.21	0.83
S	628.08	112.84	23.16	7.42
A_3	1.00	2.36	4.39	8.22

102 AIRPLANES
423497 HOURS

COMBAT	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL T-28C

28 AIRPLANES 9586 HOURS

NAVY

28 AIRPLANES
9586 HOURS

TRAINING	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	612.66	50.13	3.40	0.83
S	289.59	34.98	2.83	1.72
A_3	0.38	1.03	4.43	3.71

COMBAT	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	*			
S				
A_3				

COMBAT	3.0G	4.0G	5.0G	6.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL T-28C

44 AIRPLANES 166222 HOURS

NAVY

TRAINING	3.00	4.00	5.00	6.00
44 AIRPLANES $\bar{X}$	1058.05	135.72	7.77	0.44
166222 HOURS S	1194.04	193.19	11.74	1.84
A_3	-0.07	0.42	1.24	1.45

COMBAT	3.00	4.00	5.00	6.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

MARINE

TRAINING	3.00	4.00	5.00	6.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	3.00	4.00	5.00	6.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM
07-73 TO 06-74

MODEL T-34B

33 AIRPLANES 16779 HOURS

NAVY

TRAINING	3.00	4.00	5.00	6.00
33 AIRPLANES $\bar{X}$	215.11	28.57	3.30	0.97
16779 HOURS S	320.32	43.09	3.93	0.34
A_3	1.48	2.01	1.57	3.06

COMBAT	3.00	4.00	5.00	6.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

MARINE

TRAINING	3.00	4.00	5.00	6.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	3.00	4.00	5.00	6.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-74

MODEL T-34B

75 AIRPLANES 169265 HOURS

NAVY

75 AIRPLANES
169265 HOURS

TRAINING	3.00	4.00	5.00	6.00
$\bar{X}$	1639.79	246.31	23.38	1.31
S	1426.02	243.42	24.63	4.73
A_3	-0.12	0.24	0.77	7.09

COMBAT	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

AIRPLANES
HOURS

TRAINING	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

COMBAT	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

APPENDIX A

OUT-OF-SERVICE MODELS AND MODELS WHICH HAVE NOT REPORTED COUNTING ACCELEROMETER DATA DURING THE PREVIOUS 12 MONTHS

RCS NADC 13920-2

ALL DATA
01-62 TO 06-73

MODEL F-11A

12 AIRPLANES 3744 HOURS

NAVY

BLUE ANGELS

TRAINING		4.00	5.00	6.00	7.00
12 AIRPLANES	$\bar{X}$	5414.80	1826.89	520.71	199.94
3744 HOURS	S	2263.48	740.91	208.44	86.14
	A_3	-0.39	-0.65	-0.79	-0.37

COMBAT		4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

TRAINING		4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

COMBAT		4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL F-11A

11 AIRPLANES 4400 HOURS

NAVY

BLUE ANGELS

TRAINING	6.0G	7.0G	8.5G	10.0G
11 AIRPLANES $\bar{X}$	740.74	192.71	12.43	3.89
4400 HOURS S	217.97	62.76	7.33	7.05
A_3	0.19	0.26	0.95	2.32

COMBAT	6.0G	7.0G	8.5G	10.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

MARINE

TRAINING	6.0G	7.0G	8.5G	10.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	6.0G	7.0G	8.5G	10.0G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL AF-1E

21 AIRPLANES 4527 HOURS

NAVY

	TRAINING	4.0G	5.0G	6.0G	7.0G
21 AIRPLANES	$\bar{X}$	563.04	125.53	22.27	3.60
4527 HOURS	S	200.25	52.92	16.14	4.72
	A_3	0.29	0.61	1.63	2.00

	COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

	TRAINING	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

	COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL A-1H

28 AIRPLANES 7290 HOURS

NAVY

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	263.05	94.29	6.31	0.00
S	42.25	16.64	2.73	0.00
A_3	1.13	0.69	2.05	0.00

22 AIRPLANES
374 HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	322.42	89.29	14.84	0.00
S	77.52	27.19	6.46	0.00
A_3	1.14	1.22	1.07	0.00

28 AIRPLANES
6916 HOURS

MARINE

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL A-1J

4 AIRPLANES 917 HOURS

NAVY

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	0.00	0.00	0.00	0.00
S	**			
A_3				

1 AIRPLANES
32 HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	306.82	125.89	17.28	0.00
S	**			
A_3				

4 AIRPLANES
885 HOURS

MARINE

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

RCS NADC 13920-2

ALL DATA
01-62 TO 06-73

MODEL A-3B

80 AIRPLANES 69204 HOURS

NAVY

90 AIRPLANES
60301 HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	649.10	175.85	55.56	12.41
S	417.74	111.94	45.03	24.05
A_3	1.40	1.18	1.99	6.35

24 AIRPLANES
9903 HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	623.15	187.81	76.83	37.43
S	244.96	120.08	77.16	46.34
A_3	0.61	1.43	2.55	2.96

MARINE

AIRPLANES
HOURS

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 05-73

MODEL A-4B

58 AIRPLANES 23177 HOURS

NAVY

55 AIRPLANES
20376 HOURS

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	681.15	238.03	49.07	7.87
S	355.28	164.65	46.69	9.80
A_3	0.67	1.04	2.09	2.14

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

8 AIRPLANES
2800 HOURS

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	268.45	54.34	10.94	0.99
S	**			
A_3				

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL TA-4B

21 AIRPLANES 8198 HOURS

NAVY

21 AIRPLANES
8199 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	394.01	143.16	41.38	7.29
S	416.24	182.80	54.39	12.86
A_3	1.32	1.56	1.97	2.59

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

RCS NADC 13920-2

ALL DATA
01-62 TO 06-73

MODEL A-5A

30 AIRPLANES 11790 HOURS

NAVY

TRAINING	3.00	4.00	5.00	6.00
$\bar{X}$	579.58	128.26	9.04	3.89
S	487.22	42.19	4.68	1.00
A_3	4.57	0.57	0.75	1.63

30 AIRPLANES
11790 HOURS

COMBAT	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL A-5B

5 AIRPLANES 985 HOURS

NAVY

TRAINING	3.00	4.00	5.00	6.00
$\bar{X}$	125.50	13.83	1.01	0.00
S	**			
A_3				

5 AIRPLANES
985 HOURS

COMBAT	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	3.00	4.00	5.00	6.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL KC-130F

12 AIRPLANES 17648 HOURS

NAVY

TRAINING	2.0G	2.5G	3.0G	3.5G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	2.0G	2.5G	3.0G	3.5G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
12 AIRPLANES $\bar{X}$	6.76	0.42	0.08	0.00
17648 HOURS S	5.79	0.51	0.22	0.00
A_3	-0.38	0.30	1.82	0.00

COMBAT	2.0G	2.5G	3.0G	3.5G
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL F-4A

27 AIRPLANES 17193 HOURS

NAVY

27 AIRPLANES
17193 HOURS

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	794.95	261.01	66.29	11.89
S	275.55	127.26	42.65	8.70
A_3	0.09	0.33	0.71	1.19

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

MODEL TF-4A

4 AIRPLANES 433 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	135.48	23.72	3.32	0.00
S	**			
A_3				

4 AIRPLANES
433 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL F-4G

AIRPLANES 1668 HOURS

NAVY

		TRAINING	4.0G	5.0G	6.0G	7.0G
12	AIRPLANES	$\bar{X}$	1026.48	290.88	80.22	17.65
7848	HOURS	S	146.46	78.80	33.48	11.25
		A_3	-0.36	-0.07	0.03	0.30

		COMBAT	4.0G	5.0G	6.0G	7.0G
10	AIRPLANES	$\bar{X}$	1579.58	589.78	138.67	27.35
2448	HOURS	S	243.27	132.59	53.36	13.34
		A_3	0.80	1.14	1.24	0.97

MARINE

	TRAINING	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

	COMBAT	4.0G	5.0G	6.0G	7.0G
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL T-6A

46 AIRPLANES 17986 HOURS

NAVY

29 AIRPLANES
12399 HOURS

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	190.91	25.88	1.99	0.20
S	143.14	29.94	2.18	0.75
A_3	2.41	2.60	1.96	2.92

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

26 AIRPLANES
5587 HOURS

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	147.15	17.74	0.53	0.00
S	82.97	7.42	0.68	0.00
A_3	1.24	0.80	2.11	0.00

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL F-8A

48 AIRPLANES 33043 HOURS

NAVY

48 AIRPLANES
33043 HOURS

TRAINING		4.00	5.00	6.00	7.00
	$\bar{X}$	678.64	171.70	32.28	5.44
	S	330.20	109.28	22.83	4.33
	A_3	0.32	0.50	0.75	1.39

COMBAT		4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

MARINE

TRAINING		4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

COMBAT		4.00	5.00	6.00	7.00
AIRPLANES	$\bar{X}$	*			
HOURS	S				
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL RF-8A

28 AIRPLANES 20290 HOURS

NAVY

23 AIRPLANES
15203 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	317.32	80.22	13.37	2.66
S	120.58	36.11	7.56	1.88
A_3	0.56	0.52	0.61	1.90

4 AIRPLANES
355 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	221.00	34.00	5.73	5.73
S	**			
A_3				

MARINE

10 AIRPLANES
4726 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	151.04	28.24	4.41	0.56
S	**			
A_3				

1 AIRPLANES
6 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	0.00	0.00	0.00	0.00
S	**			
A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL TF-8A

30 AIRPLANES 4924 HOURS

NAVY

30 AIRPLANES
4924 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1274.72	393.67	82.63	14.88
S	354.70	139.02	33.41	6.09
A_3	0.88	2.10	2.48	0.98

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL F-8B

53 AIRPLANES 40015 HOURS

NAVY

46 AIRPLANES
29272 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	813.00	203.68	34.52	3.69
S	316.12	100.90	23.43	3.94
A_3	0.99	1.13	1.73	2.98

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

36 AIRPLANES
10743 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	778.09	148.63	19.24	2.49
S	188.70	53.00	9.18	2.34
A_3	1.26	1.68	1.46	2.08

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL F-8C

87 AIRPLANES 76054 HOURS

NAVY

78 AIRPLANES
53012 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	875.42	217.67	38.78	4.89
S	534.39	164.74	37.06	6.76
A_3	1.20	1.14	1.60	2.57

11 AIRPLANES
1689 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	848.92	194.84	48.77	6.46
S	575.01	119.04	27.36	6.78
A_3	0.22	0.30	0.17	1.45

MARINE

37 AIRPLANES
20851 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1217.83	346.89	67.32	10.17
S	370.14	197.60	22.36	4.73
A_3	1.83	1.60	1.66	0.05

11 AIRPLANES
502 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	748.69	333.97	61.52	9.71
S	150.27	64.69	13.85	2.68
A_3	0.24	0.03	0.32	0.47

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL F-8D

101 AIRPLANES 70988 HOURS

NAVY

93 AIRPLANES
49588 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1178.54	326.40	68.29	11.47
S	490.92	154.19	37.61	7.79
A_3	0.55	0.48	0.72	1.25

15 AIRPLANES
1060 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1380.67	394.15	107.24	22.87
S	468.87	79.59	21.81	6.83
A_3	2.59	0.29	0.19	0.71

MARINE

46 AIRPLANES
19583 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	826.64	216.72	45.39	8.03
S	398.11	118.51	30.75	5.85
A_3	0.83	0.90	1.13	1.56

11 AIRPLANES
758 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	546.18	89.42	8.42	4.32
S	71.24	22.70	6.19	6.09
A_3	0.78	0.56	1.85	2.38

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

RCS NADC 13920-2

ALL DATA
01-62 TO 06-73

MODEL F-8E

248 AIRPLANES 198601 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1994.36	510.43	131.38	19.56
S	717.23	205.58	53.09	11.45
A_3	1.87	1.50	1.62	2.23

243 AIRPLANES
129946 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1074.97	372.62	92.68	17.22
S	193.19	101.22	41.20	15.20
A_3	0.06	0.97	3.20	5.50

103 AIRPLANES
27936 HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1551.79	453.60	92.16	15.17
S	451.22	138.34	35.57	9.01
A_3	0.48	0.04	0.50	1.61

88 AIRPLANES
26217 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	1334.39	460.44	118.91	19.35
S	373.39	123.04	28.68	8.02
A_3	3.39	0.45	0.60	1.56

52 AIRPLANES
18501 HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A_3 SKEWNESS OF LOAD RATE DISTRIBUTION

* NO DATA IN THIS CATEGORY

** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL DF-8F

13 AIRPLANES 9599 HOURS

NAVY

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	405.48	91.31	11.23	0.82
S	271.17	85.23	15.41	1.65
A_3	0.49	0.76	1.93	1.35

13 AIRPLANES
9599 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL EF-10B

16 AIRPLANES 9853 HOURS

NAVY

TRAINING	3.00	4.00	5.00	6.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

COMBAT	3.00	4.00	5.00	6.00
AIRPLANES $\bar{X}$	*			
HOURS S				
A_3				

MARINE

14 AIRPLANES / 7526 HOURS	TRAINING	3.00	4.00	5.00	6.00
	$\bar{X}$	16.24	0.00	0.00	0.00
	S	10.06	0.00	0.00	0.00
	A_3	-0.59	0.00	0.00	0.00

10 AIRPLANES / 2327 HOURS	COMBAT	3.00	4.00	5.00	6.00
	$\bar{X}$	45.06	2.22	0.00	0.00
	S	**			
	A_3				

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL F-11A

36 AIRPLANES 22538 HOURS

NAVY

36 AIRPLANES
22538 HOURS

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	2736.39	593.37	80.02	10.38
S	316.87	259.16	60.36	10.36
A_3	1.30	1.37	3.46	3.50

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

MARINE

TRAINING	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	4.00	5.00	6.00	7.00
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL S-2D

67 AIRPLANES 59015 HOURS

NAVY

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	33.25	7.71	1.77	0.74
S	34.30	9.23	5.36	4.85
A_3	1.72	1.98	6.51	7.25

67 AIRPLANES
59445 HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	25.35	2.10	0.00	0.00
S	**			
A_3				

8 AIRPLANES
570 HOURS

MARINE

TRAINING	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

COMBAT	2.0G	2.5G	3.0G	3.5G
$\bar{X}$	*			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
* NO DATA IN THIS CATEGORY
** INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA
01-62 TO 06-73

MODEL T-2A

147 AIRPLANES 584869 HOURS

NAVY

147 AIRPLANES
584869 HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	591.14	44.72	4.84	0.89
S	446.55	58.91	6.48	2.09
A_3	0.74	1.99	1.83	2.81

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	**			
S				
A_3				

AIRPLANES
HOURS

MARINE

AIRPLANES
HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	**			
S				
A_3				

COMBAT	4.0G	5.0G	6.0G	7.0G
$\bar{X}$	**			
S				
A_3				

AIRPLANES
HOURS

$\bar{X}$ MEAN CUMULATIVE COUNTS PER 1000 HOURS
S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
A_3 SKEWNESS OF LOAD RATE DISTRIBUTION
** NO DATA IN THIS CATEGORY
*** INSUFFICIENT DATA IN THIS CATEGORY

APPENDIX B
THE DETERMINATION OF SAMPLE STATISTICS FOR COUNTING ACCELEROMETER DATA

APPENDIX B

Subj: The Determination of Sample Statistics for Counting Accelerometer Data

Ref: (a) Browlee, K.A., "Statistical Theory and Methodology in Science and Engineering," Wiley 1965, pp. 358-359
(b) Dixon & Massey, Introduction to Statistical Analysis, McGraw-Hill, Second Edition, 1957, pp. 194-195

1. The purpose of this appendix is to describe the methods used at NAVAIRDEVCEN in calculating statistics describing counting accelerometer data. The subsequent outlined sequence is repeated for each aircraft model, for each mission category, and for each g-level where there is sufficient data.

2. These are the methods used for determining sample statistics. Consider a scatter diagram of cumulative counts (at any g-level) vs. flight hours,

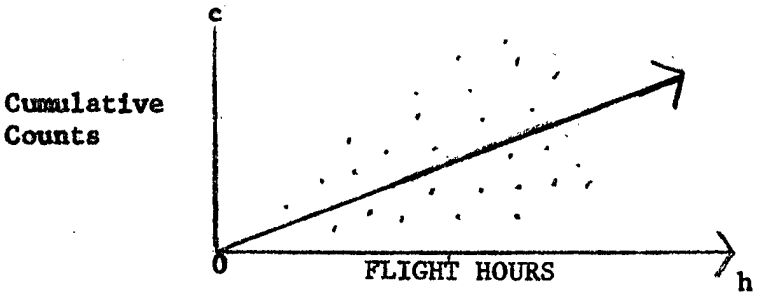

Figure 1

where each dot represents the cumulative counts and flight hours accrued by an individual serial number which is flying or has flown.

Let h_i be the total quality control accepted flight hours for the i^{th} plane (i=1, 2----N)

Let c_i be the cumulative counts during the h_i hours for the i^{th} plane (i=1, 2----N)

N is the total number of aircraft of this model and mission category for which there is recorded information.

Then

(1) $b = \dfrac{\sum_{i=1}^{N} c_i h_i}{\sum_{i=1}^{N} h_i^2}$ where b is slope of line (Figure 1) through origin fitted by least squares

(2) $\bar{x} = 1000b$ estimated mean load exceedances at 1000 hours

(3) $\bar{h} = \frac{\sum_{i=1}^{N} h_i}{N}$ average flight hours

(4) $\hat{\sigma}_{ch}^2 = \frac{\sum_{i=1}^{N} (c_i - bh_i)^2}{N-1}$ estimator of the population standard error squared of the regression

$\hat{\sigma}_{ch} = \sqrt{\hat{\sigma}_{ch}^2}$ estimator of the population standard error of the regression

(5) $S = \sqrt{1000\ \hat{\sigma}_{ch}^2 / \bar{h}}$ estimated standard deviation (counts at 1000 hours) of the load exceedances for each g-level

(6) $A_3 = \frac{\sum_{i=1}^{N} (c_i - bh_i)^3}{N\ \hat{\sigma}_{ch}^3}$ estimated skewness

3. The following is the explanation and justification for these methods:

Aircraft which do not have any flight hours must have zero counts; therefore, the line in figure 2 must go through (0,0). Brownlee (reference (a)) describes the methods for fitting a least squares line through the origin (0,0). The slope of this line is the estimated mean exceedance rate (per hour). Multiplying this rate by 1000 will result in exceedances at 1000 hours (equation (2)). Multiplying b by any other h number of hours will result in mean exceedances at h hours.

If the data in figure 1 were separated into flight hour intervals (see figure 2) and the standard error in each interval were plotted against average flight hours (see figure 3) in that interval, the resultant curve is assumed to have the square root functional form.* Due to limitations in sample size, these individual $\hat{\sigma}$'s could not be determined accurately; thus, it was necessary to calculate a single $\hat{\sigma}_{ch}$ for all h combined and apply it at $\bar{h}$.** Equation (5) uses figure 3 to convert $\hat{\sigma}_{ch}$ at $\bar{h}$ to S at 1000 hours.

* This is partially justified by the fact that the variance of a sum of independent random variables is equal to the sum of the independent variances. Unreported statistical tests performed at NAVAIRDEVCEN show that figure 3 is a reasonable fit to actual data. It should be noted that the $\hat{\sigma}$'s in figure 2 are estimated by equation (4), but each $\hat{\sigma}$ was calculated using the data points in the respective interval.

**The estimated standard error $\hat{\sigma}_{ch}$ is used as the standard error of estimate for a hypothetical distribution of planes all having $\bar{h}$ hours. This follows from work in reference (b).

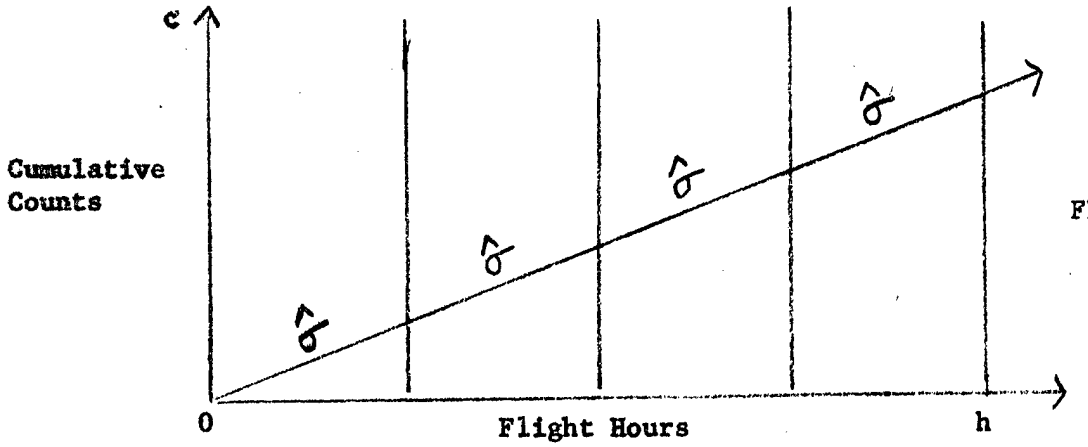

FIGURE 2

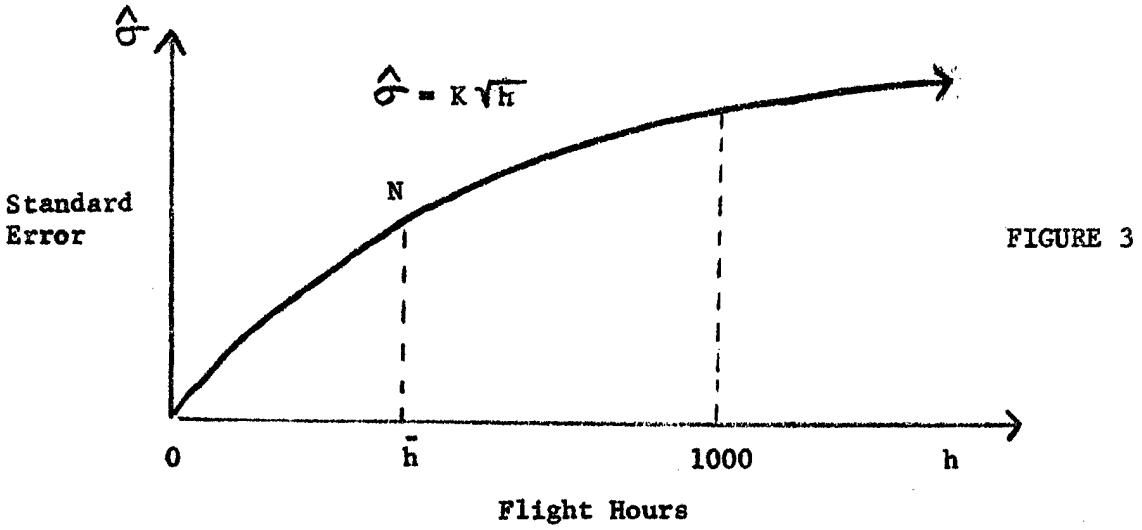

FIGURE 3

If one wanted the standard error at some other value of hours h, he would simply replace 1000 in equation (5) by that value of hours h, and the appropriate standard error would result.

Skewness A_3 is computed in equation (6). This measure indicates whether more airplane load exceedances are above the mean line or below the mean line. If:

$A_3 < 0$ More load exceedances are above mean line than below

$A_3 = 0$ Equal number of load exceedances above and below mean

$A_3 > 0$ More load exceedances are below mean line than above

(Strictly speaking a distribution is symmetrical only if all its odd moments are zero; however, the above statement is approximately true.)

4. For ease of computation, equation (4) can be expanded as follows:

$$(N-1)\,\hat{\sigma}_{ch}^2 = \sum_{i=1}^{N}(c_i - bh_i)^2$$

$$(N-1)\,\hat{\sigma}_{ch}^2 = \sum_{i=1}^{N}(c_i^2 - 2bc_ih_i + b^2h_i^2)$$

$$(7)\quad (N-1)\,\hat{\sigma}_{ch}^2 = \sum_{i=1}^{N} c_i^2 - 2b\sum_{i=1}^{N} c_ih_i + b^2\sum_{i=1}^{N} h_i^2$$

but

$$b = \frac{\sum_{i=1}^{N} c_ih_i}{\sum_{i=1}^{N} h_i^2}$$

and (7) can be reduced to

$$(N-1)\,\hat{\sigma}_{ch}^2 = \sum_{i=1}^{N} c_i^2 - 2b\sum_{i=1}^{N} c_ih_i + b\,\frac{\sum_{i=1}^{N} c_ih_i \sum_{i=1}^{N} h_i^2}{\sum_{i=1}^{N} h_i^2}$$

then

$$(8)\quad \hat{\sigma}_{ch}^2 = \left(\sum_{i=1}^{N} c_i^2 - b\sum_{i=1}^{N} c_ih_i\right) \Big/ (N-1)$$

Equation (8) will be used in lieu of equation (4) in determining $\hat{\sigma}_{ch}^2$.

5. An example using F-4G training Navy data, 12 airplanes 4.0G level:

Serial No.	Counts (c_i)	Hours (h_i)
150481	1567	1341.7
150484	649	618.2
150487	1114	1100.8
150489	5	27.3
150492	768	691.7
150625	23	139.6
150629	396	555.1
150633	718	831.3
150636	854	839.1
150639	536	695.4
150642	910	775.3
150645	160	233.0

The following are tabulated:

$$\sum_{i=1}^{N} h_i = 7848.5$$

$$\sum_{i=1}^{N} c_i = 7700$$

$$\sum_{i=1}^{N} c_i h_i = 6913341.6$$

$$\sum_{i=1}^{N} h_i^2 = 6735017.87$$

$$\sum_{i=1}^{N} c_i^2 = 7250716.00$$

$$\sum_{i=1}^{N} (c_i - bh_i)^3 = -7082690$$

and are used in the following equations:

(1) $b = \frac{6913341.6}{6735017.87} = 1.02647$ cts. per hr.

(2) $\bar{x} = 1000\ (1.02647) = 1026.47$ cts. at 1000 hrs.

(3) $\bar{h} = \frac{7848.5}{12} = 654.04$ hours

(8) $\hat{\sigma}_{ch}^2 = \frac{7250716 - 1.02647\ (6913341.6)}{11} = 14034$ $\qquad \hat{\sigma}_{ch} = 118.5$

(5) $s = \sqrt{1000\ (14034)/654} = 146.46$ cts. at 1000 hours.

(6) $A_3 = \frac{-7082690}{12\ (118.5)^3} = -.36$

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